	Application No.	Applicant(s)	
Notice of Allowability	09/543,268	BOYCE ET AL.	
	Examiner	Art Unit	
	Paul B. Prebilic	3738	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in b) or other appropriate communication is second in the secon	n this application. If not included unication will be mailed in due co	l ourse. THIS
1. This communication is responsive to the response filed Ju	une 17, 2004.		
2. The allowed claim(s) is/are <u>1-6,9-18,21,24-26 and 30-35.</u>			
3. $igotimes$ The drawings filed on <u>05 April 2000</u> are accepted by the B	Examiner.		
4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority de International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ve been received. ve been received in Application ocuments have been received " of this communication to file	on No d in this national stage application	
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent application (PTO-152) which give			TICE OF
 6. CORRECTED DRAWINGS (as "replacement sheets") mutering (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the departached Examiner's comment regarding REQUIREMENT 	rson's Patent Drawing Review r's Amendment / Comment or 1.84(c)) should be written on the header according to 37 CF osit of BIOLOGICAL MATE	r in the Office action of the drawings in the front (not the body) ERIAL must be submitted. No	
attached Examiner's comment regarding REQUIREMENT	FOR THE DEPOSIT OF BIO	DEOGICAL WATERIAL.	
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material) 6. ☐ Interview S Paper No. /08), 7. ⊠ Examiner's	oformal Patent Application (PTO- ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allow	,

Application/Control Number: 09/543,268

Art Unit: 3738

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Peter Dilworth on September 1, 2004.

The application has been amended as follows:

1. (Currently amended) An osteoimplant consisting essentially of a solid aggregate of superficially demineralized bone-derived elements bonded to each other through covalent chemical linkages between their surface-exposed collagen formed by ehemical linkages, wherein the chemical linkages are formed by a chemical crosslinking agent, and wherein the solid aggregate of bone-derived elements possesses a compression strength of from about 10 to about 200 MPa, said elements made from bone particles superficially demineralized such that they retain a high proportion of their original mineral content.

In claim 2, line 3, after "xenogenic", a comma ---,--- was inserted.

In the title, the language "AND METHOD OF ITS MANUFACTURE" was deleted.

The following is an examiner's statement of reasons for allowance:

Upon review of the claims filed June 17, 2004 and the prior art of record, the Examiner concluded that the mineral content of the bone particles was a key distinction over the prior art of record. It was determined that normal adult bone has a mineral

Application/Control Number: 09/543,268

Art Unit: 3738

content of about 67% by weight (Stedman's Medical Dictionary, 23rd Edition (1976), page 187). In addition, to obtain the claimed compression strength, Applicants state that the bone-derived elements must retain a high proportion of their original mineral content; see page 9, first full paragraph of the present specification. For these reasons, the Examiner concluded that the percent mineral content of bone particles having a high proportion of their original mineral content would be much higher than 2 to 4% by weight or less than 5% as in the demineralized bone particles of the prior art. Therefore, the claims are not rendered obvious by Wolfinbarger (US 6,189,537), as a teaching for the Lyle patent (US 5,061,286), because Wolfinbarger teaches demineralization down to the 2% to 4% range; see Wolfinbarger's abstract and column 13, lines 23-40.

In addition and in consideration of Applicant's remarks filed June 17, 2004, the Examiner changed his position with regard to the 37 CFR 1.131 affidavit filed October 1, 2003 and concluded that it was sufficient to show earlier invention. In particular, the 9 day period of inactivity was considered reasonable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Prebilic whose telephone number is (703) 308-2905. The examiner can normally be reached on Monday-Thursday from 6:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott, can be reached on (703) 308-2111. The fax phone number for this Technology Center is (703) 872-9306.

Art Unit: 3738

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 3700 receptionist whose telephone number is (703) 308-0858.

Paul Prebilic

Primary Examiner

Art Unit 3738